



## Shop Order

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**Sales Rep:**  
Greg Rivers  
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**Terms:**  
Chassis & Body Net 30 Days

**Drawing #:** FT-11593  
**Est. Delivery Date:** 03/29/24  
**Customer PO #:**  
**Customer #:**  
**QPF #:**

**Penalty:**  
None

**Exp. Date:** 10/01/2022  
**Quote No:** G-Georgina 2022-0013  
**Job/Order No:** 22841  
**BODY:** 00-10-15 Metalfab Pumper - ULC 05/13

04/18/2024

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PART NO	QTY	DESCRIPTION
<b>== Metalfab Pumper - ULC 05/13 - 0.000 ==</b>		
<b>Change Order E</b>		
00-05-0060	1	<b>Dealer - Safetek</b>
00-10-1520	1	<b>Metalfab Pumper</b>
00-20-0510	1	<b>List of References - by Safetek</b>
00-20-1000	1	Company Profile
00-20-1500	1	Standard Body Warranty
00-20-1550	1	Metalfab Limited Ten (10) Year Paint and Corrosion Warranty
00-20-1600	1	<b>Waterous Pump Warranty - 5 years</b>
00-20-1800	1	Polypropylene Tank Lifetime Warranty
00-20-2100	1	<b>Plant Inspection Visits - by Safetek</b>
00-20-3000	1	No Bonding Required
00-20-3500	1	Certification for Fusion Welding of Steel and Aluminum
00-20-4000	1	Quality System registered to ISO 9001:2015
00-20-4500	1	Fire Apparatus Manufacturers' Association Membership
<b>GENERAL INFORMATION</b>		
10-11-0000	1	Intent
10-11-0110	1	<b>Vehicle data recorder included with chassis</b>
10-11-1101	1	<b>ULC S515-13 and NFPA 1901-2016 Compliance</b>
10-11-1700	1	<b>ULC Testing - Pumper - Metric units of measure</b> Tested to 6000 Litres per minute
10-11-17AA	1	<b>ULC required labels to be bilingual English/French</b>
10-11-2100	1	Maximum length not specified
10-11-2200	1	Maximum height not specified
10-11-2400	1	<b>Overall length is 30' or more</b>
10-11-2500	1	General Construction
10-11-3000	1	<b>Manuals - two copies</b> ***Two copies of manuals on USB are required and a complete parts list
10-11-3600	1	<b>Delivery - FOB Fire Department - by Safetek</b>
10-11-4300	1	<b>Payment Terms - Chassis and Body NET 30</b>

PART NO	QTY	DESCRIPTION
10-20-1400	1	<p><b>Hose capacity exceeding ULC/NFPA requirements</b></p> <p>Main hose bed - 800' x 4", 300' x 2-1/2", 300' x 1-3/4"  Speedlays - 200' x 1-3/4, 200' x 1-3/4", 200' x 2-1/2"  Front bumper - 150' x 1-3/4  Additional weight over ULC requirement = 1814 pounds</p>
10-20-2000	1	Equipment carrying capacity - standard ULC Pumper
		<b>CHASSIS INFORMATION</b>
20-11-1001	1	<p><b>Chassis supplied by Metalfab - Spartan Metro Star</b></p> <p>47,000 lb GVWR    20,000 lb front axle    27,000 lb rear axle  224" wheelbase    156.5" cab to axle    74" rear overhang  Cummins L9 380 hp @ 2200 rpm    2200 governed rpm  1150 ft-lb torque @ 1200 rpm Allison 3000 EVS automatic transmission  68 MPH top road speed  320 amp alternator  1710 series driveline  Jackshaft for Waterous pump - 116"  68 US gallon fuel tank  Groeneveld auxiliary lube system - LH frame mounted  Zip clean type seats complete with additional seat covers  Cab interior color is Multi-tone dark red  Cab exterior color is single color red - PPG FBCH 71528 - paint sprayout required  Chassis Includes 120 Volt auto eject in the "LH cab mid side" 5209-002  5728-009 rear view camera.  5013-002 - Electric over air pump shift control  Chassis lightbar per Spartan configurator  VISTA display LH and RH dash  24" bumper extension with hosewell and 2" plumbing  Change Order A adjusts location of mechanical siren and front discharge plumbing, moves air eject inlet and changes camera display.  Modifications to chassis by Metalfab, these were not made at Spartan because of the cancellation of the Change Request due to the IMMI/APS issue:  Add Brake Stroke Indicators to rear axle  Change the Mechanical siren in front bumper to fully recessed flush mount LH OB and remove the accessory guards  Move left side air horn to right side OB to match M21-21767  Move the electrical inlet location to LH cab side mid rather than LH lower front step mid.  Change light bar to match attached WECAD  Change the camera display from LH HD monitor to display on the VISTA monitors</p>
20-11-1500	1	2013 Emission chassis modifications
20-11-1600	1	<b>Chassis Motor Vehicle Inspection by Safetek</b>
20-21-0500	1	<b>Fluid capacity plate</b> Chassis fluid label included with chassis, Metalfab adds pump, generator, etc. fluids
20-21-0600	1	<b>Pumping test plate</b>
20-21-1030	1	<b>Maximum riders sign - 5 persons with chassis</b>
20-21-1510	1	<b>Seat belt warning labels - 4 door chassis with chassis</b>
20-21-1520	1	<b>Helmet warning label - do not wear helmet with chassis</b>
20-21-1550	1	<b>Tire Pressure Indicators included with chassis</b> Shipped loose for end user install
20-21-1600	1	<b>Apparatus Information Label</b> An information label is provided in the chassis cab, visible to the driver, stating: "When manufactured, this vehicle was: ** m high ** m long ** kg GVW Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"

PART NO	QTY	DESCRIPTION
20-21-2000	1	Non removable key
20-21-2500	1	Shifter lock not required
20-21-3500	1	Rear step warning label
<b>20-21-3810</b>	<b>1</b>	<b><i>Front mudflaps provided with chassis</i></b>
20-21-4000	1	Rear mudflaps - Metalfab Logo
<b>20-21-4510</b>	<b>1</b>	<b><i>Transportation Safety Kit included with chassis</i></b> <b>Safety Triangle</b> <b>2-1/2 pound Fire Extinguisher</b>
<b>20-21-45AA</b>	<b>1</b>	<b><i>Basic First Aid Kit</i></b> <b>Metalfab provides a basic First Aid kit as part of the Transportation Safety Kit</b>
20-31-0100	1	Fuel tank or step covers not required
20-31-0200	1	Fuel fill label -Ultra Low Sulfur Diesel only
20-31-1900	1	Chassis cab not painted
<b>20-31-7505</b>	<b>2</b>	<b><i>Stainless glove box holder/dispenser</i></b> There will be two (2) glove box holders installed on the side of EMS cabinet 20-99-10AA to match M18-20000
20-31-7510	1	Console in cab not requested
<b>20-31-8808</b>	<b>1</b>	<b><i>IPAD mounting bracket</i></b> A tablet mounting bracket will be supplied and installed on the dash in front of the Officer's seating position. Havis Shield APP112 (1011263) and a Metalfab angled bracket. Customer will provide a photo of their last truck.
20-41-0600	1	Intake air shutoff for engine not required
20-41-0800	1	Auxiliary braking system not present
<b>20-41-1110</b>	<b>1</b>	<b><i>Transmission Programming Allison WT</i></b>
<b>20-41-1500</b>	<b>1</b>	<b><i>Extend exhaust pipe - RS front of rear wheels</i></b> Engineering to specify exhaust pipe material as required by the chassis manufacturer. Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications. Exhaust will be outboard of the frame rail to allow space for the Waterous Pump
<b>20-41-1900</b>	<b>1</b>	<b><i>Battery boost terminals with chassis</i></b> Included with chassis, front LS cab step well
20-41-2000	1	Chassis batteries remain in OEM location
<b>20-41-2561</b>	<b>1</b>	<b><i>Fuel fill at LS rear fender well with SCBA style door</i></b> Fuel fill to be configured to fill as quickly as possible
20-41-2600	1	Chassis fuel tank remains in OEM location
20-41-5000	1	Rear Tow Hooks - under body *** Flat bar tow hooks under rear step (2)
<b>20-51-0700</b>	<b>1</b>	<b><i>Master Battery Disconnect included with chassis</i></b>
<b>20-51-2500</b>	<b>1</b>	<b><i>Back up alarm included with chassis</i></b>
<b>20-51-3100</b>	<b>1</b>	<b><i>Air inlet not required</i></b>
20-51-3400	1	Protection valve installed for air operated accessories
<b>20-51-6200</b>	<b>5</b>	<b><i>120 volt 20 A shore line connection in chassis cab</i></b> Standard 5-20R duplex receptacle in chassis cab/body, not fused To be located minimum 12" from the floor to meet ULC Mounting locations: (2) at LHS of engine tunnel (2) on backside(forward facing) of EMS at engine tunnel height (1) in EMS upper at back wall
<b>20-51-6501</b>	<b>1</b>	<b><i>Battery Charger, air compressor, 120 volt inlet included with chassis</i></b> Auto Charge 40 LPC

PART NO	QTY	DESCRIPTION
20-51-7102	1	<i>Electric System Manager included with chassis</i>
20-51-8505	1	<i>Engine compartment light included with chassis</i>
20-51-9001	1	<i>Air horns included with chassis</i>
20-52-3500	1	<i>Chassis steering wheel lined up by Metalfab</i>
20-52-4003	1	<i>Installation of Spartan supplied rear view camera</i> Flip down monitor located above driver's seat
20-60-0400	1	Chassis wheelbase does not change
20-90-1810	1	<i>Extend air tank drains to rub rail and tag</i>
20-99-10AA	1	<i>Medical cabinet with shelves and cargo netting, buffed finish</i> A sanded aluminum EMS cabinet approximately 47 inches high by 17 inches wide by 15 inches deep is installed in the chassis cab behind the officer's seat facing rearward. It will include one adjustable shelf, one adjustable slide out shelf, and a mesh cover. It will include a 1" rim around the top circumference, this area and the shelf and tray will be fitted with interlocking tile matting. Finish will be buffed aluminum
20-99-15AA	1	<i>Interior shelves in crew area, buffed finish</i> Sanded aluminum shelves to match 21767 - top shelf is 19" x 42", lower shelf is 12" x 42". Will have a mesh cover on the opening between the top and lower shelf. The cabinet must have a one (1) inch rim around the top circumference The cabinet top and floor must be fitted with interlocking tile matting Finish will be buffed aluminum
20-99-20AA	1	<i>TFT CrewProtect 100 air decontamination system</i> Locate on backside(forward facing) of EMS compartment. Behind Officer Powered when Ignition is on, dimensions 20" x 12" x 4-1/2"
<b>PUMP AND PLUMBING</b>		
30-12-4000	1	<i>Mechanical seals for Waterous pumps</i>
30-12-6500	1	<i>Waterous CSU single stage 6000 LPM</i> Pump will be rated and tested to 6000 LPM Short steamers required - see 30-31-4010
30-15-0204	1	<i>Plumbing - Waterous manifold pump SM SS</i>
30-20-0500	1	<i>Valves and controls - side mount panel</i> All drain valves to be 1/4 turn controls as listed in the tender
30-20-1002	1	<i>Akron valves specified</i>
30-20-1600	1	<i>Piping stainless steel - general</i>
30-20-1700	1	<i>1-1/2" thread specifications - NPSH</i>
30-20-1800	1	<i>2-1/2" thread specifications - CSA</i>
30-20-2000	1	<i>Piping hydrostatic test</i>
30-20-2500	1	<i>Anodes in suction and discharge piping</i> Install one anode on discharge side of pump, one anode on suction side of pump - do not use teflon tape or thread sealant. Paint flange silver and mask brass anode before painting for visibility.
30-21-5560	1	<i>Tank to Pump SS 3" w/ check valve manifold pump</i>
30-22-1520	1	<i>Tank Fill valve 2-1/2" SS</i>
30-31-4010	1	<i>Suction - 6" not gated each side manifold pump - short fittings</i> 69" wide pump panel To have the shorter style inlets that protrude less than two (2) inches (50mm) away from the side panels, allowing an external valve to be connected and not protrude past the apparatus body sides. Customer advised make and model of customer supplied external valves that will be installed and the pump panel rollup doors must be able to close when installed: Left side - customer supplied Make: Task Force Tip Model: AP8NX-NX-PS Right side - customer supplied Make: Task Force Tip

PART NO	QTY	DESCRIPTION
		Model: AXD1SP-NX-T
30-31-6027	1	<i>6" rear suction, Akron electric valve, plumbed 4", bleeders front and rear</i> Installed inside rear compartment, terminating just inside the rear rollup door for ease of connecting
30-32-7545	1	<i>Suction - 2-1/2" left side SS, bleeder, Waterous manifold pump</i>
30-32-8045	1	<i>Suction - 2-1/2" right side SS, bleeder, Waterous manifold pump</i>
30-40-2025	1	<i>4" right discharge SS, plumbed 3", Waterous manifold pump</i>
30-40-2040	1	<i>4" rear discharge, 3" valve, plumbed 3"</i> Connection at rear located right side under ladder tube and to right of rear compartment door The piping will run through the water tank and will require a blister in the rear compartment to create space for the fitting
30-41-2025	1	<i>2-1/2" RS discharge SS, bleeder, Waterous manifold pump</i>
30-41-2525	2	<i>2-1/2" LS discharge SS, bleeder, Waterous manifold pump</i>
30-43-1520	1	<i>2-1/2" rear discharge SS, plumbed 2-1/2", bleeder</i> Right side above the hi-vol discharge 30-40-2040
30-44-0720	2	<i>1-1/2" speedlay (each) front of pumphouse SS, plumbed 2"</i> Capacity in each lay to be minimum 200' x 1-3/4" hose and nozzle, single stack design above 2-1/2" speedlay
30-44-0740	1	<i>2-1/2" speedlay (each) front of pumphouse, SS</i> Capacity in hose lay to be minimum 200' x 2-1/2" hose and nozzle
30-44-1020	1	<i>1-1/2" front trash line SS, plumbed 2", hosewell</i> Capacity in hose lay to be minimum 150' x 1-3/4" hose and nozzle The chrome plated swivel connection will terminate above the front bumper apon to the right of the hosewell, the cover will include a slot for the hose. Plumbing to be equipped with an autodrain under the front bumper rather than a manual drain. A 4" LED flush mounted light is installed in one end, activated by park brake.
30-44-6520	1	<i>Piping for monitor SS, plumbed 3", bleeder</i> Monitor piping will be terminate with 3" victaulic for extenda gun and will have a Metalfab supplied TFT Hurricane RC Monitor installed (80-99-25AA) Location of the monitor pipe will be towards the right side, move rearward 4" further than previous units for better clearance for deck gun and stacked tips.
30-51-0510	1	<i>Pump shift - Midship air with Spartan pump shift control</i> Electric over air pump shift in cab included with the Spartan chassis (Code 5013-002) Includes "Pump Engaged" and "OK to Pump" indicator lights in cab Includes "Throttle Ready" indicator light on Pump operating panel
30-51-0600	1	<i>Manual over ride for pump shift on pump panel by Metalfab</i> Install manual over ride on pump panel rather than on the pump gearbox, locate minimum 6" above the pump panel step.
30-51-1500	1	<i>Price Adjustment</i>
30-51-1501	1	<i>Price Adjustment</i>
30-51-6640	1	<i>Class One "TPG Plus" Governor/Throttle</i>
30-51-7000	2	<i>Suction side relief V/V, manifold pump</i>
30-51-7712	1	<i>Trident Air Primer 3 barrel 2 location</i> One for pump and one outboard of rear suction valve
30-51-7720	1	<i>Additional air tank for air primer system</i> An additional air tank is provided to improve air primer capacity and is included with the chassis.
30-51-8100	1	<i>Heat exchanger included with chassis</i>
30-51-8500	1	<i>Pump cooler with control valve, check valve</i> Plumb to tank fill box, control valve on pump panel

PART NO	QTY	DESCRIPTION
30-51-9000	1	<p><b>Thermal Relief Valve</b>  Indicator light/test button located on left side pump operators panel  SOPT#844</p> <p>Will be ordered with the pump and will discharge below the pump when activated</p>
30-52-1000	1	Master drain V/V, 12 port
30-52-2000	1	<b>Drain valve for foam system header</b>
30-52-5515	1	<b>Foam System-Hypro FoamPro 2001 Single Tank</b> All three speedlays (2 x 1-1/2" and 1 x 2-1/2") plus the trashline are to be foam capable
30-52-8200	1	<p><b>FoamPro Power Fill foam fill system</b>  Pump will be used to refill the foam cell 40-12-5000. The suction hose will be stored inside the pump house and will be accessible through the right side pump access door 70-11-5500</p>
30-52-9100	1	<b>Foam concentrate label at foam tank fill</b>
30-52-9200	1	<b>Foam System Instruction Plates</b>
30-52-9400	1	<b>NFPA Foam System certification test</b>
<b>WATER AND FOAM TANKS</b>		
40-11-2100	1	Polypropylene water tank (Imperial gallons)
40-11-2200	1	Water tank capacity certification (tank manufacturer)
40-11-4500	1	<b>Tank capacity 800 Imperial Gallons</b>
40-12-5000	1	<b>Foam cell - 30 Imperial gallon</b>
40-13-0100	1	<b>Through the tank tunnel - up to 20 cu ft</b> For Ladder tube storage 60-40-9001
40-21-0500	1	<b>3" tank to pump connection</b>
40-22-1000	1	<b>2-1/2" tank fill connection</b>
40-23-0500	1	<b>3/4" water level gauge connection</b>
40-23-1000	1	<b>3/4" foam level gauge connection</b>
40-30-0400	1	3" plug in sump box
40-30-1000	1	Water Fill Box front left corner
40-31-0400	1	Rear dump valve not requested
40-31-6050	1	Rear fill not requested
<b>ELECTRICAL</b>		
50-11-0400	1	<p><b>Base electrical system - Spartan multiplex</b>  All Electrical components on the body will have extra wiring behind to allow space when removing an accessory per customer specifications  All wiring terminal connections to include heat shrink per customer specification  Electrical devices to be controlled from the VISTA panels in the cab  Include a manual shut off switch for the Q2B siren, near the REGEN switch in the driver footwell</p>
50-11-04AA	1	<b>Heat shrink on all electrical terminals</b>
50-11-0600	1	<b>Warning Light Certification</b>
50-11-0700	1	<b>Low Voltage Electrical system test</b>
50-11-0800	1	<b>Low Voltage Electrical System Documents</b> As required by ULC and NFPA standards
50-11-14AA	1	<b>Siren and speaker provided with Spartan chassis</b>
50-11-2600	1	<b>Siren to be accessible to driver and officer</b>
50-11-6110	1	<b>Whelen light bar included with chassis</b> Whelen F4N72 light bar - includes 8 red lights, 2 white lights, 2 blue lights (position 6 and 13) and an Opticom (795H) Opticom to be active with Master Emergency Light control and when park brake is released All controlled from VISTA display
50-11-6616	1	<b>Rear LED Traffic Advisor warning lights - TAM83 - flush mount - 30.45" long</b> The traffic advisor will be a TAM83 in order to be recessed into the body Includes TACTL5 control, mounted in centre dash
50-11-8001	1	<b>Rear beacons not required</b>

PART NO	QTY	DESCRIPTION
50-12-8000	1	<b>Additional body side intersection light not required</b> Distance between front and rear side intersection light does not exceed 25'
50-12-8522	1	<b>Front flashers, intersection lights included with chassis, TecNiq K60</b> Desired flash pattern to be provided, descriptions and visuals are available at <a href="https://tecniqinc.com/product/K60/">https://tecniqinc.com/product/K60/</a> If not specified, pattern 1 - Single Flash - 75 will be programmed Every second light will flash in the opposite phase. Front facing RS to be blue with blue lens Front facing LS to remain red with red lens RS front intersection to remain red with red lens LS front intersection to be blue with blue lens Lights over front wheels to remain red with red lens
50-12-8606	1	<b>Rear LED flashers (pr) - TecNiq red K90 with chrome bezel and red lens</b> Desired flash pattern to be provided at precon, video preferred _____ Upper LS to be blue with blue lens Upper RS to remain red with red lens
50-12-8806	2	<b>Body side intersection lights (pr) - red LED TecNiq K60 with chrome bezel</b> Desired flash pattern to be provided at precon, video preferred _____ RS light in rear fender to be blue with blue lens LS light in rear fender remains red with red lens
50-12-8821	1	<b>Body side LED intersection lights (pr) - TecNiq red K90 with red lens</b> Desired flash pattern to be provided at precon, video preferred _____ Forward light to be blue with blue lens for both LS and RS Rearward light to remain red with red lens for both LS and RS
50-21-27AA	1	<b>Price Adjustment</b>
50-21-27BB	1	<b>Command Light KL415D-FX</b> 12 volt light tower with 4 x 230 watt FRC Spectra Max light heads Located in open area top of pump house Control will be 15' umbilical type and located on the left side wall of the L1 compartment Light tower does not include back lighting
50-21-5100	1	Compartment lighting - LED tube lights in each compartment (rollup doors)
50-21-5500	1	<b>Door Ajar warning light</b> With chassis and on VISTA displays Bilingual warning label in cab to read: "Do Not Move Apparatus when Light is on" Includes hose bed covers (60-33-5000) and coffin compartment doors (60-91-0900)
50-21-5550	1	<b>Equipment rack not stowed warning light</b> Indicate on VISTA displays Bilingual Warning label in cab to read: "Do Not Move Apparatus when Light is on" For Command Light, rear access ladder, and monitor not stowed
50-21-8001	1	<b>Step lights for body steps - 4" LED</b> Switched with park brake
50-21-81AA	1	<b>Lighting under hose bed cover</b> Switched with park brake.
50-21-83BB	1	<b>12" Luma Bars for rear intermediate step</b> Switched with park brake
50-21-8600	1	LED clearance lights and reflectors
50-21-8605	1	<b>Polished aluminum license plate holder on rear of body, with LED light</b>

PART NO	QTY	DESCRIPTION
50-21-8800	1	<i>LED intermediate turn signal/clearance/reflector length &gt;30'</i>
50-22-0760	1	<i>Tecniq K60 tail light and warning light module (quad) (pr)</i> Lower RS warning to be blue with blue lens Lower LS warning to remain red with red lens Includes flasher in the quad design Requires additional Tecniq turn and brake module for Zico Access ladder Metalfab part # 1571121 and # 1571122 Desired flash pattern to be provided at precon, video preferred _____
50-31-4000	1	<i>Price Adjustment</i>
50-31-6049	1	<i>Scene lights (pr) - Tecneq K90 with chrome bezels - right side upper</i> Located in upper front and rear corners of body sides. One (1) additional light mounted on chassis cab is ordered with the chassis Switched in cab on VISTA These lights can be managed to shed
50-31-6050	1	<i>Scene lights (pr) - Tecneq K90 with chrome bezels - left side upper</i> Located in upper front and rear corners of body sides. One (1) additional light mounted on the chassis cab is ordered with the chassis Switched in cab on VISTA These lights can be managed to shed
50-31-6051	1	<i>Scene lights (pr) - Tecneq K90 with chrome bezels - rear facing upper</i> Located in the upper corners rear of body below the flashing lights. Switched in cab on VISTA These lights cannot be managed to shed
50-31-6505	1	<i>Ground lighting included with chassis</i> Switched with park brake, respective cab door and Vista (5386-004) to match M18-20000
50-31-6570	1	<i>Ground lighting (LED Lumabar) - side mount body</i> Switched with park brake.
50-99-10AA	1	<i>Hose bed cover lights - 40" Luma Bar</i> Switched with park brake
50-99-16AA	1	<i>Lighting for rear access ladder</i> Switched with park brake.
50-99-20AA	1	<i>40" lumabar for storage above pump house</i> Switched with park brake.
50-99-25AA	1	<i>Lighting for hose bed walkway</i> There will be LED lights installed in the walkway (60-32-3580) which will be activated with the park brake.
51-31-3020	1	<i>Price Adjustment</i> BODY
60-10-1400	1	<i>Single axle extruded aluminum body - full width hose bed</i>
60-10-15AA	1	<i>1" recess for compartment floors - sweep out</i> There will be 1" drop at the compartment floor edge to create a sweep out style compartment and as requested in item #363 of the body tender.
60-10-30AA	1	<i>Walkway in centre of hose bed</i>
60-10-4100	1	No "beavertail" rear step supports
60-10-4600	1	Painted fender surround
60-10-4750	1	<i>Removable polished aluminum fender trim - single axle</i> 3 piece polished cast aluminum, accepted at precon
60-10-5400	1	Diamondback pumphouse steps

PART NO	QTY	DESCRIPTION
60-10-5430	1	<p><b>Diamondback 16" rear step</b>            Note that the first step from the ground is not to exceed 16" when the vehicle is loaded, this will be accomplished using the Zico Access Ladder as the required angle of departure cannot be achieved if the rear step is this low.</p>
60-10-5452	1	<p><b>Inset step at rear of hose bed</b>            As described in 60-32-7500</p>
60-10-6500	1	<p><b>Bolt on extruded aluminum rub rail</b>            Equipped with red and silver reflective DOT striping</p>
60-11-0300	1	<p><b>Front left side compartments full height</b>            (1) PAC tool board full height - mount so 8" clear from right hand side wall, PAC board both sides            (1) Full height vertical divider - mount so 8" clear from PAC tool board            (2) adj shelves - mount between left side wall of compartment and vertical divider</p>
60-11-0700	1	<p><b>Front right side compartments full height</b>            (1) 600lb Tray 100% extension, mount at floor level            (2) adj shelves - full depth</p>
60-11-1000	1	<p><b>Rear left side compartments full height</b>            (1) PAC tool board full height - mount so 8" clear from right hand side wall, PAC board both sides            (1) Full height vertical divider - mount so 8" clear from PAC tool board            (2) adj shelves - mount between left side wall of compartment and vertical divider</p>
60-11-1400	1	<p><b>Rear right side compartments full height</b>            (1) 550lb Tray 75% extension, mount at floor level            (2) adj shelves - full depth</p>
60-11-2000	2	<p><b>High side compartment (over 18") each</b>            7 - PAC B/A storage 80-99-40AA at floor level            (1) adj shelf above BA storage</p>
60-11-3200	1	<p><b>Full Height Rear compartment</b>            (1) 550lb Tray 75% extension, mount at floor level</p>
60-11-5500	2	<p><b>Rollup door - standard height</b>            Natural aluminum finish            Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point</p>
60-11-5520	5	<p><b>Rollup door - full height</b>            Natural aluminum finish            Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point</p>
60-11-5530	2	<p><b>Rollup door - to enclose pump panel</b>            Natural aluminum finish            Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point</p>
60-11-5645	9	<b>Amdor supplied drip pan under rollup door roll (each) with drain tubes</b>
60-11-5655	2	<b>Amdor pull straps - Flex - HD (for door opening 20"-37")</b>
60-11-5660	7	<b>Amdor pull straps - Flex - HD (for door opening 49"-70")</b>
60-31-4100	1	Extruded aluminum handrails Minimum 2" clearance from handrail to any surface
60-31-5000	1	<p><b>Zico access Ladder at rear of unit</b>            Minimum 7" clearance between rung and any obstruction.            Switch required for the Not Stowed warning light in cab            Note that the first step from the ground is not to exceed 16" when the vehicle is loaded, this will be accomplished using the Zico Access Ladder as the required angle of departure cannot be achieved if the rear step is this low.</p>

PART NO	QTY	DESCRIPTION
60-31-5800	1	<p><b>Intermediate step at rear</b>            The bolt on step will be located a maximum of 18" below the hose bed to meet ULC. There will be delineation markings to meet NFPA</p>
60-31-6510	1	<b>Compartment matting - black "Turtle Tile" brand with yellow leading edges</b>
60-31-7900	1	<p><b>Vertical unistrut tracking in all compts - dual tracks on front and rear wall</b>            All compartments to include dual tracks on the front and rear walls (standard unistrut tracking), except walls that include vertical pull out tool boards.            Tracking will be shorter than standard to allow space for the Amdor drip trays (60-11-5645)</p>
60-31-82BB	2	<p><b>Sliding vertical tool board with PAC trac both sides</b>            Locate in L1 and L3</p>
60-31-8400	2	<p><b>Fixed vertical partition</b>            Locate in L1 and L3</p>
60-31-8800	2	<p><b>Sliding tray (ea) - 700 pound capacity - 70% extension</b>            ***Hardware requires 3-1/2" of compartment height            Reflective stripe is applied on the exposed edge for visibility when the compartment door is open            Locate in R3 and B1            Changed to 70% 700 pound hardware as the 75% extension is only available in 30" or more slide extension</p>
60-31-88AA	1	<p><b>Sliding Tray (ea) - 600 pound capacity - 100% extension</b>            Reflective stripe is applied on the exposed edge for visibility when the compartment door is open            Locate in R1</p>
60-31-9600	8	<p><b>Adjustable shelf (ea)</b>            Reflective stripe is applied on the exposed edge for visibility when the compartment door is open            Locations to be confirmed at precon _____</p>
60-32-3550	1	<p><b>Two adjustable hose divider (each)</b>            Hand hold required in end            Two adjustable and two fixed in center to create the walkway 60-32-3580.            See also 60-32-75AA for mounting and location requirements</p>
60-32-3580	1	<p><b>Hose bed walkway</b>            The hosebed shall incorporate a center walkway for safety. The walkway shall be minimum of 18" wide and sided by two fixed dividers that will also act as hosebed cover supports.            Non slip overlays shall be provided in the walkway part of hosebed.</p>
60-32-7500	1	<p><b>Hose bed - aluminum</b>            The rear of the hose bed to be held back from the rear of the apparatus by a minimum of eight (8) inches to provide for a landing area when accessing the hose bed after stepping off the access ladder. There will be Delineation markings to meet NFPA            Hose bed to be able to hold the following:            800' of 4" hose            300' of 2-1/2" hose            300 of 1-3/4" hose            There will be a partition at the front of the hose bed to protect the water and foam fill along with a walkway (60-32-3580) - these areas will not be covered by the hose bed covers (60-33-5000)</p>
60-33-0000	1	<p><b>Paint exterior - Imron Elite</b>            *** Paint code and colour to match chassis cab</p>
60-33-0200	1	Undercoat vehicle with KROWN rust protection
60-33-0600	1	<b>Chassis wheels not painted</b>
60-33-1000	1	Paint pump and plumbing job colour
60-33-1500	1	Buffed finish compartment interior

PART NO	QTY	DESCRIPTION
60-33-2000	1	<i>Lettering - install customer supplied door crests</i> Lettering layout approved March 4 with additional cost approved April 17
60-33-3300	1	<i>Reflective stripe - 1" - 4" - 1" special graphic</i> One (1) inch white/red stripe, one (1) inch space, four (4) inch white/red stripe, one (1) inch space and one (1) inch white/red stripe angled up ("hockey stick pattern") up the L1/R1 compartment doors. The white stripe will be installed on the red painted surfaces and the red stripe will be installed on the rollup doors Striping layout approved March 4
60-33-3320	1	<i>Reflective stripe - red and yellow chevron at rear - 3M Diamond Grade material</i>
60-33-33AA	1	<i>Red and Silver reflective striping in rub rail</i> 1110935
60-33-33BB	1	<i>Diamond Grade Chevrons - front bumper</i> There will be Diamond Grade Chevrons supplied and installed on the front bumper to match M18-20000
60-33-4700	1	<i>No crosslay preconnects on vehicle</i>
60-33-5000	1	<i>Aluminum cover over hose bed with end tarps - black</i> Manual hose bed covers with gas struts and safety chains. The end tarps will have to be velcro straps and footman loops due to layout Switches for door ajar required Will stop 8" short at the rear of the hose bed for the landing step surface, be full width of the hose bed, will not cover the water fill / foam fill area or the walkway (60-32-3580).
60-33-50AA	1	<i>Hose bed locks</i> Must have the doors fitted with positive hold open (lock out) devices with latching design to prevent the door from being accidentally closed (wind or other) while in use. As built for the M18-20000 project.
60-40-5500	2	<i>Suction hose tube (each) with door</i> Located under the hose bed To store the 6" x 10 long suction hoses 80-11-5000. Tubes will be fully enclosed with a single rear access door. Door ajar switch required. Tubes to be minimum 10'-6" interior length
60-40-9001	1	<i>Tube mount for ladders, through tank</i> The ladder tube will be through the water tank - above the rear compartment (60-11-3200) and under the hose bed (60-32-7500) To store the 24' Duo Safety two section extension ladder 80-14-0505, 14' Duo Safety roof ladder 80-14-5510, 10' Duo Safety folding attic 80-14-8510, 10' pike pole 80-13-2500 and the 12' pike pole 80-13-25AA.
60-41-1000	2	<i>Pike Pole tube through tank</i> Refer to 60-40-9000
60-41-1500	1	<i>Attic ladder tube through tank</i> Refer to 60-40-9000
60-91-0900	1	<i>Top mount "coffin" compartment (ea) with hinged lid and lighting</i> Includes tread plate cover with lift and turn latches, gas struts and handrail. Interior provided with LED lighting and door ajar switch. Hinged toward the front of the vehicle. Interlocking plastic tile provided for the floor along with drains to below the chassis frame. Customer to provide interior dimensions required: This compartment is to be located between the tank fill boxes and the hose bed. It is to be full depth of the hose bed, full width of the hose bed, and 30" wide inside so final interior dimensions will be approximately 15" deep x 30" wide x 94" long.

PART NO	QTY	DESCRIPTION
<b>INSTRUMENTATION</b>		
70-11-0000	1	<b>Warning Label on Pump Operator's Panel</b>
70-11-0500	1	<b>Side mount instrument panel with rollup door RS and LS</b> No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position
70-11-1500	1	<b>Stainless steel instrument panels</b> No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position Left side upper panel to be equipped with push type latches to allow access without tools
70-11-2200	2	<b>Removable storage trays in pump panel step/running boards</b> These are drop in style, not bolted to allow movement as requested in customer specification
70-11-3205	1	<b>Color coded tags - Vision Mark</b> Vision Mark colour coded tags confirmed acceptable Labels are to be METRIC - 45 MM, 65 MM, 100 MM
70-11-5110	1	<b>Open storage at rear top of pump house</b> Drain holes required, plumbed to below frame rails Black plastic interlocking tile install on floor Illuminated by Lumabar to be activated with park brake
70-11-5500	1	<b>Right side tread plate pump access door</b> No opening dimension less than 18" Buffed aluminum to match compartment interior finish, vertically hinged, single lift and turn latch
70-11-7550	1	<b>Heat pan - aluminum - two piece design</b>
70-11-80AA	1	<b>Heater in pump compartment - Fleet Flex Gold heater hose requested</b> Note special heater hose requirement
70-11-8200	1	<b>Rubber seal around suction and discharge openings on side pump panels</b>
70-20-1120	2	<b>4-1/2" compound gauge - dual face 0-400 Thuemling brand</b>
70-20-2130	11	<b>2-1/2" pressure gauge - dual face 0-400 - Thuemling brand</b>
70-20-2500	1	<b>Primer control - Trident for main pump prime</b>
70-20-2501	1	<b>Additional Primer control - Trident for rear suction</b>
70-20-3100	1	<b>Class One Governor Control</b> Throttle can be no lower than 42" and no higher than 72" from operator's standing position.
70-20-3520	1	<b>Electric water level gauge on pump panel, FRC WLA400-A00</b>
70-20-3530	1	<b>FRC Max Vision tank level indicator at rear of vehicle</b>
70-20-6500	1	Test gauge panel Mount below the compound gauges for proper draining
70-20-7500	1	<b>Heat exchanger control valve</b>
70-20-7600	1	<b>Pump cooler control valve</b>
70-21-1510	1	<b>Electric Foam level gauge on pump panel - FRC WLA360-A00 Foam</b>
<b>ACCESSORIES</b>		
80-11-5000	2	<b>6" x 10' lightweight suction hose (ea)</b>
80-13-2500	1	<b>Pike pole, fibreglass handle - 10' long</b>
80-13-2516	1	<b>Pike pole, fibreglass handle - 12' long</b>
80-14-0505	1	<b>24' 2 section extension ladder - Duo Safety 900-A</b>
80-14-5510	1	<b>14' aluminum roof ladder - Duo Safety 775-A</b>
80-14-8510	1	<b>10' aluminum folding attic ladder - Duo Safety 10-585-A</b>
80-15-7050	1	<b>Garden hose connection on pump panel</b> Plumbed through engine heat exchanger, controlled by a quarter turn valve at the pump panel Includes a pressure reducing valve
80-19-0500	2	<b>Large folding wheel chock - aluminum (ea) not mounted</b> Shipped loose

PART NO	QTY	DESCRIPTION
80-20-5035	1	<b>Lifepack 1000 defibrillator with case and spare battery</b> Not mounted
80-99-15AA	1	<b>Streamlight 5 bank charger 90912</b> A flashlight charger (bank of five - 12 volt) will be installed to charge customer supplied "Streamlight" flashlights. Customer specified that the charger is 12-volts (90912, direct wired) Customer specified preferred mounting location will be on EMS cabinet behind dog house (20-90-1825) and mounted towards officer seat.
80-99-25AA	1	<b>TFT Hurricane RC monitor and Extenda Gun</b> There will be Hurricane Remote Control monitor with stacked tips and XGA extenda gun supplied and installed on the monitor pipe 30-44-6520. Remote control monitor - TFT XFIH-EL9A with CSA threads Stacked tips - TFT MST-4NJ 5" stream straightener Tethered monitor - Y4E-CT-30-D with 30' cord - to be installed on side wall of operator pump panel, confirmed at precon Extenda Gun riser - TFT RC3 XGA38-VLRL
80-99-40AA	14	<b>PAC CM6000 SCBA cylinder mounts</b> Locate at bottom of compartments over rear wheels, 7 each side